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# Energy Analysis Seminar Series

*A "brown bag" analytical seminar series*

## **A New Model for Wind Market Penetration**

Walter Short, Principal Policy Analyst  
National Renewable Energy Laboratory (NREL)  
Thursday, May 8, 2003  
Noon–1 p.m.

Wind energy is difficult to capture with standard market penetration models because it is intermittent—and it is dispersed with significant transmission requirements. NREL has developed a national model of capacity expansion for the electric sector that examines these two wind issues in great detail.

The Wind Deployment Systems Model (WinDS) also attempts to answer questions such as what is the potential of wind energy in the United States for the next 20–50 years, what is the sensitivity to different technology development scenarios, and what is the impact of different policy scenarios on market potential? This presentation will describe this new model and some of its early results.

**Walter D. Short** is a principal policy analyst at the National Renewable Energy Laboratory (NREL), where he manages the NREL Analysis Group in Golden, Colorado. Short is directing a number of analysis and modeling efforts related to renewable energy. He also conducted heat transfer, optical analysis, and engineering economics studies in the buildings and solar thermal programs at NREL in the 1980s. Prior to joining NREL in 1980, Short was an analyst at Stanford Research Institute. Short holds a bachelor's degree in mathematics from the University of Georgia and a master's in operations research from Stanford University.



Walter Short

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